

# 4282

Diag. Chart No. 5530-4

Form 504
DEPARTMENT OF COMMERCE
U. S. COAST AND GEODETIC SURVEY
State: <u>California</u>
11-5613
DESCRIPTIVE REPORT.
Hydrog. Sheet No. <u>4282</u>
LOCALITY:
<u>Suisun Bay</u>
<u>Suisun Pt. to Simmons I.</u>
<u>1922</u>
CHIEF OF PARTY:
<u>O.W. Swainson</u>

# 4282

ADDRESS THE DIRECTOR  
U. S. COAST AND GEODETIC SURVEY

AND REFER TO No. 4-DEM

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

February 29, 1924.

Verification of H. 4282

Suisun Bay

The records were generally good, although the recording at times became very careless and it was very difficult to tell to what sounding a position number belonged. The checkmark and the number was usually on different lines and frequently the number itself was between two lines. Figures at times were made incomplete. In volume 1 on "A" day there was page after page of names of objects with only the first letter recorded. This is extremely bad practice and should be discouraged.

The records lacked the completeness necessary for a good survey. For instance, where there was a sudden shoaling in depth and then a deepening, no mention is made in the record that the shoal soundings are correct. The verifier could only follow the usual course and accept the soundings as recorded, even though this was contrary to all probability. Hence there are many places on this sheet that almost look absurd and from the surrounding depths would appear that they are clearly lead line errors.

In the vicinity of Suisun Cut-off at the junction of this sheet with H. 4284, the development is inadequate. The information was insufficient for drawing both the 15 and 30 foot curves, and these were supplied by referring to one of the previous surveys.

The protracting and plotting of the soundings were excellent.

*A. L. Shalowitz*

A. L. Shalowitz

DEPARTMENT OF COMMERCE  
U. S. COAST AND GEODETIC SURVEY

WASHINGTON

February 29, 1924.

SECTION OF FIELD RECORDS

Report on Hydrographic Sheet No. 4282

Suisun Bay, California

Surveyed in 1922 - 1923

Instructions dated June 1, 1921 and March 1, 1922.

Chief of Party, O. W. Swainson.

Surveyed by O. W. Swainson and M. O. Witherbee.

Protracted and soundings plotted by R. L. Johnston.

Verified and inked by A. L. Shalowitz.

1. There are defects in the sounding records which are noted in the draftsman's report on the sheet. There are numerous palpable errors of one fathom in the recorded depths. It is evident that the work of the recorder and leadsman was not observed by the officer taking left angle as directed by paragraph 290 of the General Instructions.
2. The plan and character of development fulfill the requirements of the General Instructions, except that along the western shore of the bay the sounding lines should have been normal to the shoreline.
3. The plan and extent of development satisfy the specific instructions.
4. The sounding line crossings are, in general, adequate.
5. The information is sufficient for drawing the usual depth curves, except at the eastern end of Suisun Cutoff.
6. The plotting of this sheet was done entirely in the office.
7. The junctions with the adjacent sheets are satisfactory.

8. No further development is required within the area of this sheet.
9. As indicated in paragraph 1, there are a number of defective soundings in this survey. Owing to the fact that they have not been rejected by the field party, it has been considered necessary to retain them.
10. The character and scope of the surveying is fair.
11. Reviewed by E. P. Ellis, February, 1924.

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COPY TO FIELD RECORDS.

June 14, 1923.

Division of Hydrography and Topography:

Division of Charts:

Tide reducers are approved in  
5 volumes of sounding records for

HYDROGRAPHIC SHEET 4223

Locality: Suisun Bay, Calif.

Chief of Party: G. W. Swainson in 1922-23.

Plane of reference is mean lower low water, reading

4.4 ft. on tide staff at Bay Point

1.6 " " " " " " Monteruma

3.8 " " auto. gauge " Suisun Point.

For reduction of soundings, condition of records satisfactory  
except as checked below:

1. Locality and sublocality of survey omitted.
2. Month and day of month omitted.
3. Time meridian not given at beginning of day's work.
4. Time (whether A.M. or P.M.) not given at beginning of day's work.
5. Soundings (whether in feet or fathoms) not clearly shown in record.
6. Leadline correction entered in wrong column.
7. Field reductions entered in "Office" column.
8. Location of tide gauge not given at beginning of each day's work.
9. Leadline corrections not clearly stated.
10. Kind of sounding tube used not stated.
11. Sounding tube No. entered in column of "Soundings" instead of "Remarks".
12. Legibility of record could be improved.
13. Remarks.

*G. W. Swainson*

Chief, Division of Tides and Currents.